

L Number	Hits	Search Text	DB	Time stamp
4	0	6663631.URPN.	USPAT	2003/12/22 18:25
5	19	("4246660"   "5458601"   "5492442"   "5520689"   "5527315"   "5540688"   "5562660"   "5575791"   "5575819"   "5591165"   "5591166"   "5601554"   "5620443"   "5643260"   "5658283"   "5725527"   "5728127"   "5735850"   "5928234").PN.	USPAT	2003/12/22 18:25
9	0	6656179.URPN.	USPAT	2003/12/22 18:26
10	9	("5344422"   "5662652"   "5713898"   "5817094"   "5882350"   "5925047"   "5947969"   "6106526"   "6302888").PN.	USPAT	2003/12/22 18:26
14	7	("5439465"   "5525646"   "5681313"   "5855580"   "6117135"   "6136002"   "6193721").PN.	USPAT	2003/12/22 18:27
18	0	6355036.URPN.	USPAT	2003/12/22 18:50
19	6	("4696293"   "5630815"   "5891144"   "5902304"   "6053915"   "6187004").PN.	USPAT	2003/12/22 18:50
23	2	6340362.URPN.	USPAT	2003/12/22 18:51
24	4	("4454876"   "4573458"   "5643267"   "6001103").PN.	USPAT	2003/12/22 18:52
28	1	6117135.URPN.	USPAT	2003/12/22 18:53
29	7	("4289123"   "5569251"   "5620443"   "5800433"   "5843082"   "5928232"   "5954722").PN.	USPAT	2003/12/22 18:53
33	23	3824995.URPN.	USPAT	2003/12/22 18:58
34	3034	(606/\$.ccls. OR 600/\$.ccls. OR 623/\$.ccls. OR 128/\$.ccls.) AND plate AND (hinge OR hinged)	USPAT; US-PGPUB	2003/12/22 18:59
35	929	(606/\$.ccls. OR 600/\$.ccls. OR 623/\$.ccls. OR 128/\$.ccls.) AND plate AND (hinge OR hinged) AND bone	USPAT; US-PGPUB	2003/12/22 19:00
36	203	(606/\$.ccls. OR 600/\$.ccls. OR 623/\$.ccls. OR 128/\$.ccls.) AND plate AND (hinge OR hinged) AND bone AND hook	USPAT; US-PGPUB	2003/12/22 19:04
37	8	plate AND (hinge OR hinged) AND bone AND hook AND (fixation OR fixing OR fixed OR fix)	EPO; JPO; DERWENT; IBM_TDB	2003/12/22 19:05
38	18	plate AND (hinge OR hinged) AND bone AND hook	EPO; JPO; DERWENT; IBM_TDB	2003/12/22 19:05
39	189	plate AND (hinge OR hinged) AND bone	EPO; JPO; DERWENT; IBM_TDB	2003/12/22 19:12
40	507	(606/60 OR 606/61).ccls. AND hook	USPAT; US-PGPUB	2003/12/22 19:13
41	48	(606/60 OR 606/61).ccls. AND hook AND (hinge OR hinged)	USPAT; US-PGPUB	2003/12/22 19:15
42	490	606/61.ccls. AND hook	USPAT; US-PGPUB	2003/12/22 19:15
43	5	6007538.URPN.	USPAT	2003/12/22 19:20
44	15	("1784716"   "2208860"   "2966907"   "3659595"   "4201215"   "4512346"   "4802477"   "4813416"   "4957496"   "5356412"   "5356417"   "5423821"   "5549683"   "5620444"   "5709684").PN.	USPAT	2003/12/22 19:20

L Number	Hits	Search Text	DB	Time stamp
4	675	(compression OR compress OR compressed OR compressing) AND screw AND (thread\$3 WITH head) AND angle AND plate AND bone	USPAT; US-PGPUB	2003/12/23 12:12
5	441	(compression OR compress OR compressed OR compressing) AND (screw WITH thread\$3 WITH head) AND angle AND plate AND bone	USPAT; US-PGPUB	2003/12/23 12:12
6	74	(compression OR compress OR compressed OR compressing) AND (screw WITH thread\$3 WITH head WITH lock\$3) AND angle AND plate AND bone	USPAT; US-PGPUB	2003/12/23 12:13

1/9/1  
DIALOG(R) File 351:Derwent WPI  
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007768655      \*\*Image available\*\*  
WPI Acc No: 1989-033767/198905  
XRPX Acc No: N89-025717

Compressible bone staple - has first and second legs and slidably  
adjustable ratchet mechanism coupling and locking legs apart  
Patent Assignee: OUTERBRIDGE H K G (OUTE-I)  
Inventor: OUTERBRIDGE H K G; OUTERBRIDGE H K G  
Number of Countries: 017 Number of Patents: 008  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 301898	A	19890201	EP 88307036	A	19880729	198905 B
AU 8820052	A	19890202				198917
US 4852558	A	19890801	US 8779266	A	19870729	198938
EP 301898	B1	19930310	EP 88307036	A	19880729	199310
DE 3879025	G	19930415	DE 3879025	A	19880729	199316
			EP 88307036	A	19880729	
CA 1317520	C	19930511	CA 549074	A	19871009	199324
ES 2038299	T3	19930716	EP 88307036	A	19880729	199333
IE 62356	B	19950125	IE 882316	A	19880728	199517

Priority Applications (No Type Date): US 8779266 A 19870729  
Cited Patents: A3...8919; CH 597838; DE 2125556; FR 1239266; No-SR.Pub;  
US

3862631; US 4570624

Patent Details:

Patent No	Kind	Int	Pg	Main IPC	Filing Notes
EP 301898	A	E	13		
Designated States (Regional): AT BE CH DE ES FR GB GR IT LI LU NL SE					
US 4852558	A		12		
EP 301898	B1	E	17	A61B-017/58	
Designated States (Regional): AT BE CH DE ES FR GB GR IT LI LU NL SE					
DE 3879025	G			A61B-017/58	Based on patent EP 301898
ES 2038299	T3			A61B-017/58	Based on patent EP 301898
CA 1317520	C			A61B-017/58	
IE 62356	B			A61B-017/58	

Abstract (Basic): EP 301898 A

The bone staple comprises a first leg for securely penetrating the

first bone segment. A second staple leg securely penetrates the second bone segment. A ratchet compressively couples the first and second staple legs together and lockably positions the staple legs at a selected distance from one another.

The ratchet and the staple legs form a U-shape, with no projection of the ratchet above the intersections with the first and second staple legs. The ratchet is ratchetably engaged inside the U-shape.

USE - For compressively sustaining joint of first and second bone

segments in surgical orthopaedic procedures.

Abstract (Equivalent): EP 301898 B

A bone staple (10; 50; 60; 70) for compressibly sustaining joinder

of first and second bone segments, said bone staple comprising, as considered in one orientation; a first downwardly extending staple

leg  
(12; 52; 64; 74; 90) for securely penetrating said first bone  
segment  
and having an upper and a lower end region; a second downwardly  
extending staple leg (14; 54; 68; 76; 92) for securely penetrating  
said  
second bone segment and having an upper and a lower end region; and  
a  
securing means for adjustably and compressibly coupling said first  
and  
second staple legs together and for lockably positioning said staple  
legs a selected distance apart from one another, said securing means  
comprising a first elongate member (16; 62; 72; 94) extending at an  
angle from the upper end region of the first staple leg (12; 52; 64;  
74; 90) in a direction towards the second staple leg (14; 54; 68;  
76;  
92) and said securing means also comprising a second elongate member  
(18; 66; 96) having an upper wall portion, a bottom wall portion and  
enclosing side wall portions to define an elongate guide in which  
the  
first elongate member (16; 62; 72; 94) extends, characterised in  
that  
the securing means is ratchet means, the first elongate member (16;  
62;  
72; 94) having a substantially smooth upper surface and having a  
lower  
surface comprising a plurality of spaced downwardly extending  
ratchet  
teeth, the ratchet means further comprising an elongate ratchet  
member  
(22; 102, 104) fixedly secured relative to the guide and having a  
portion within the guide, that portion having a plurality of  
upwardly  
extending spaced ratchet teeth (28) such that the wall portions of  
the  
guide encompass the engagement of the ratchet teeth (28) of the  
ratchet  
member (22) and of the first elongate member (16; 62; 72; 94) to  
provide a shield to prevent fouling of the area of ratchet  
engagement.

(Dwg.1/13)

Abstract (Equivalent): US 4852558 A

The bone staple for compressibly sustaining joinder of first and  
second bone segments comprises a first downwardly extending  
elongated  
staple leg having an upper end and a lower end for securely  
penetrating  
first bone segment. A second downwardly extending elongated staple  
leg  
has an upper end and a lower end for securely penetrating the second  
bone segment. A ratchet adjustably and compressibly coupled the  
first  
and second staple legs together and lockably positions the staple  
legs  
a selected distance apart from one another. The ratchet comprises a  
first elongated member having a relatively smooth upper surface and  
a  
lower surface and extending at an angle from the upper end of the  
first  
staple leg. The first elongated member has spaced downwardly  
extending

ratchet teeth on the lower surface of the first elongated .

ADVANTAGE - Ease of locking position of staple.

Title Terms: COMPRESS; BONE; STAPLE; FIRST; SECOND; LEG; SLIDE; ADJUST;

RATCHET; MECHANISM; COUPLE; LOCK; LEG; APART

Derwent Class: P31; P32

International Patent Class (Main): A61B-017/58

International Patent Class (Additional): A61B-017/08; A61F-005/04

File Segment: EngPI

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Basic Patent (No,Kind,Date): EP 301898 A2 19890201 <No. of Patents:  
014>

COMPRESSIBLE BONE STAPLE (English; French; German)

Patent Assignee: OUTERBRIDGE HOWARD KERGIN GLEN

Author (Inventor): OUTERBRIDGE HOWARD KERGIN GLEN

Designated States : (National) AT; BE; CH; DE; ES; FR; GB; GR; IT; LI;  
LU

; NL; SE

IPC: \*A61B-017/58;

Derwent WPI Acc No: G 89-033767

Language of Document: English

Patent Family:

Patent No	Kind	Date	Applic No	Kind	Date
AT 86464	E	19930315	EP 88307036	A	19880729
AU 8820052	A1	19890202	AU 8820052	A	19880727
AU 603690	B2	19901122	AU 8820052	A	19880727
CA 1317520	A1	19930511	CA 549074	A	19871009
DE 3879025	C0	19930415	EP 88307036	A	19880729
DE 3879025	T2	19930715	EP 88307036	A	19880729
EP 301898	A2	19890201	EP 88307036	A	19880729
(BASIC)					
EP 301898	A3	19890510	EP 88307036	A	19880729
EP 301898	B1	19930310	EP 88307036	A	19880729
ES 2038299	T3	19930716	ES 88307036	EP	19880729
IE 9562356	B	19950125	IE 882316	A	19880728
JP 1043249	A2	19890215	JP 88189522	A	19880728
JP 93016861	B4	19930305	JP 88189522	A	19880728
US 4852558	A	19890801	US 79266	A	19870729

Priority Data (No,Kind,Date):

EP 88307036 A 19880729

US 79266 A 19870729